



# **Variable Data Printer Software Installation Manual**

**Version 1.1-3**

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# Contents

- 1. Connecting the Variable Data Printer [VDP] ..... 4
- 2. Installing the Jet Engine GUI Software ..... 5
  - 2.1. System Requirements ..... 5
- 3. Installation Procedure ..... 6
  - 3.1. Installing the Jet Engine GUI base version ..... 6
  - 3.2. Applying Jet Engine GUI updates. .... 12
- 4. SeriPrinter with interlock ONE TIMER configuration settings. .... 17
- 5. Supporting Documentation ..... 24

## 1. Connecting the Variable Data Printer [VDP]

Ensure the following have been completed before installing the Jet Engine GUI software.

1. The Variable Data Printing Accessory has been installed into the SeriPrinter Model 25 VDE machine.
2. Open the top cover of the SeriPrinter. Connect one end of an ethernet cable to the available ethernet port on the top of the VDP Imager.
3. Connect the other end of the ethernet cable into an available ethernet port on either the computer that will be running the Jet Engine GUI software or a network switch.

**Note: If connecting directly between the computer and the VDP Imager, the supplied cross-over network cable must be used.**

**If connecting between a network switch and the VDP Imager, a non cross-over [patch] cable must be used.**

4. Close the cover of the SeriPrinter. Ensure the network cable is located in the recess of the top cover. Ensure the network cable is not squashed by the top cover.
5. Power on the SeriPrinter Model 25 VDE.
6. The third LED from the left (Image Configuration Indicator) on the VDP Imager will turn red and after a few seconds turn green.
7. The first LED from the left (100MBit Ethernet Activity Indicator) of the VDP Imager will turn green intermittently. This indicates the network cable is plugged in.
8. The VDP Imager is now ready for configuration and the Jet Engine software can be installed.

## **2. Installing the Jet Engine GUI Software**

### **2.1. System Requirements**

The following are suggested minimum system requirements for the computer the software will be installed onto.

1. Windows XP Operating System [Windows 2000 compatible]
2. 1 Ghz Processor
3. 256 MB RAM
4. 2 GB available Hard Drive space
5. 100Mbit Ethernet Adapter

### 3. Installation Procedure

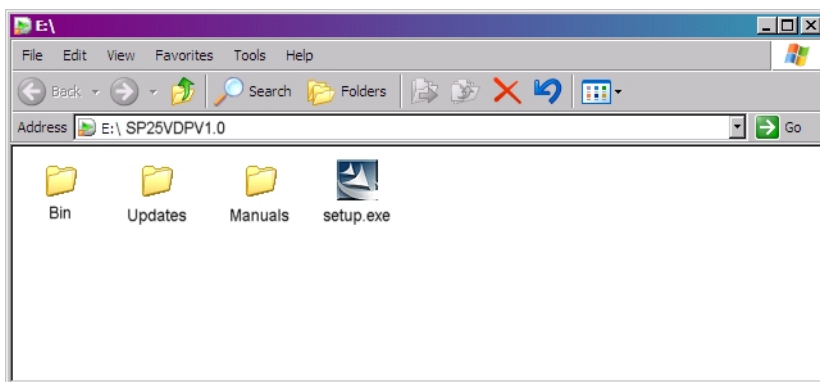
The Jet Engine GUI Software is located on the SP25 VDP installation CD ROM supplied with the VDP Accessory Kit. The installation procedure consists of two parts.

3.1. Installing the Jet Engine GUI base version

3.2. Applying Jet Engine GUI updates

#### 3.1. Installing the Jet Engine GUI base version

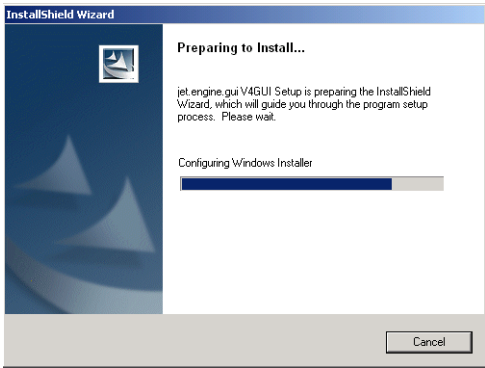
1. Insert the SP25VDP installation CD ROM.
2. Browse the installation CD ROM. The following are located on the CDROM.
  - setup.exe
  - Update folder
  - Manual folder



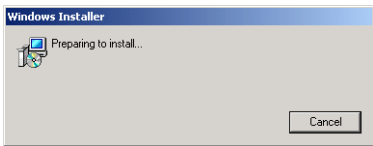
3. Double click the [setup.exe] file.



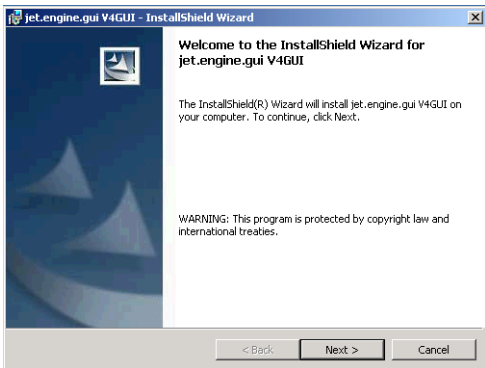
4. The Windows Install Shield Wizard will open.



5. The Windows Installer will prepare to install.



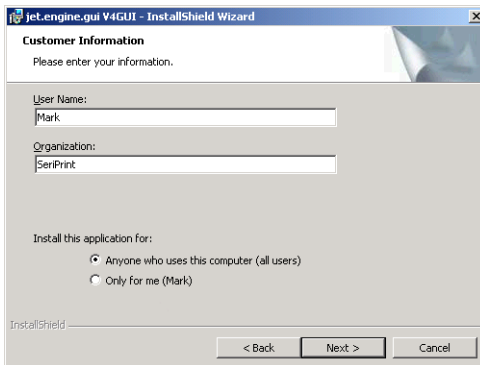
6. Click [Next] at the Install Shield welcome dialogue box.



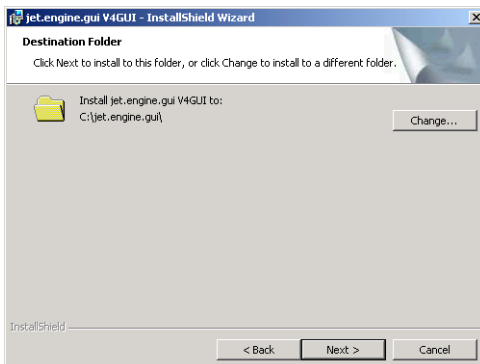
7. Accept the terms of the license agreement and click [Next].



8. Insert [User Name] ,[Organization] and select users preference. Click [Next].

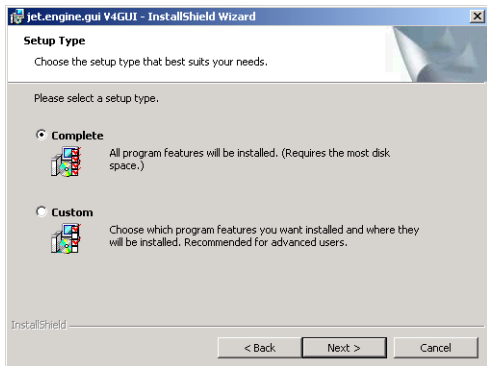


9. Select the destination folder and click [Next].

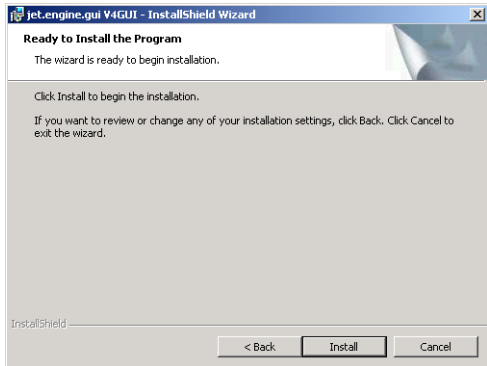




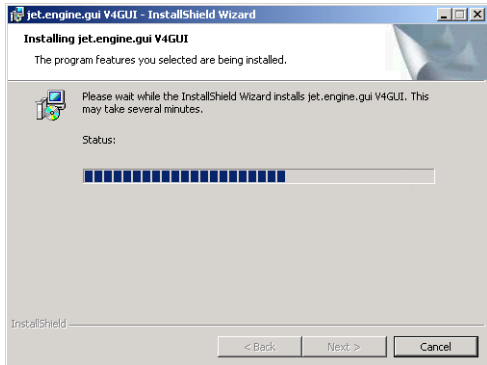
10. Select [Complete] setup type and click [Next].



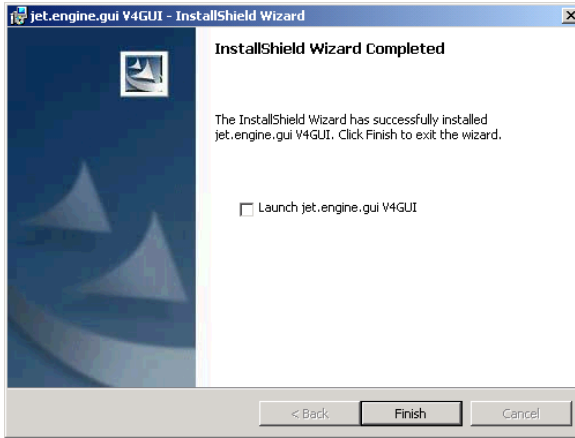
11. The program is ready for installation. Click [Install].



12. The Jet Engine software will be installed.



13. Click [Finish] to complete the Jet Engine software installation.



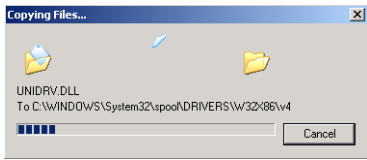
14. Select [jet.engine.gui] from [Programs] in the [Start] menu and click [Launch jet.engine.gui].

**Note:** When [jet.engine.gui] is opened for the first time on the completion of the installation the printer driver is automatically installed.

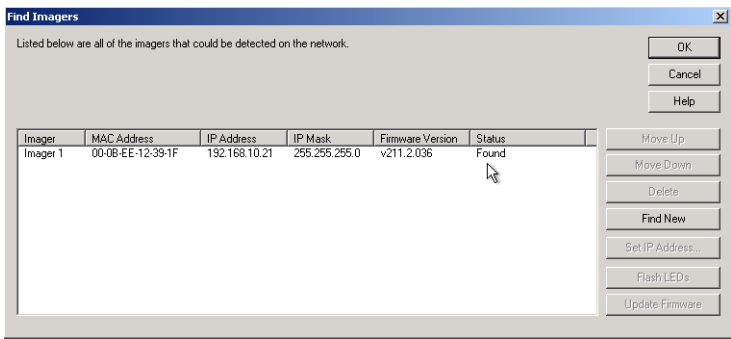
15. Click [Continue Anyway] or [Yes], (depending on the Windows Operating System), at the Microsoft license window.



16. The printer files will be automatically installed and the application will open.

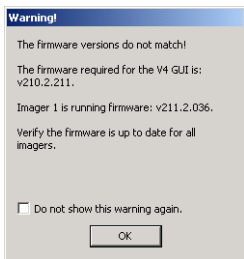


17. The jet.engine.gui application will automatically find any other installed Imagers. Select the Imager and click [OK].



18. A message might appear warning that the firmware versions installed do not match. Ensure that the firmware of the Imager is higher than the firmware [jet.engine.gui] requires. Click [OK] and close the application.

**Note:** If the firmware version of the Imager is lower than the firmware of the [jet.engine.gui] contact the supplier of the VDP Accessory.

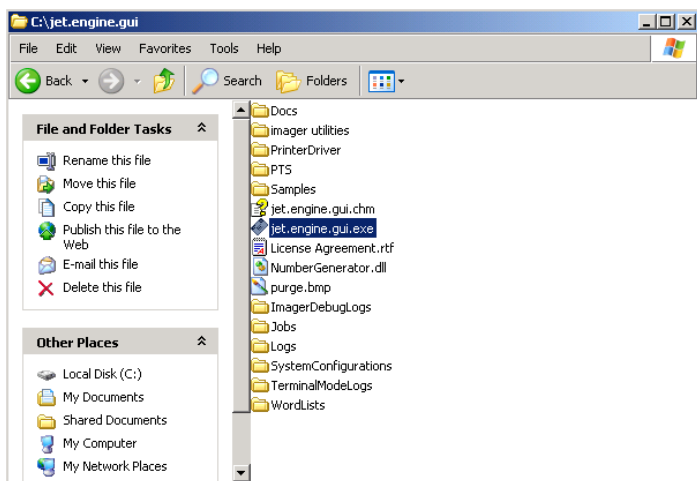


### 3.2. Applying Jet Engine GUI updates.

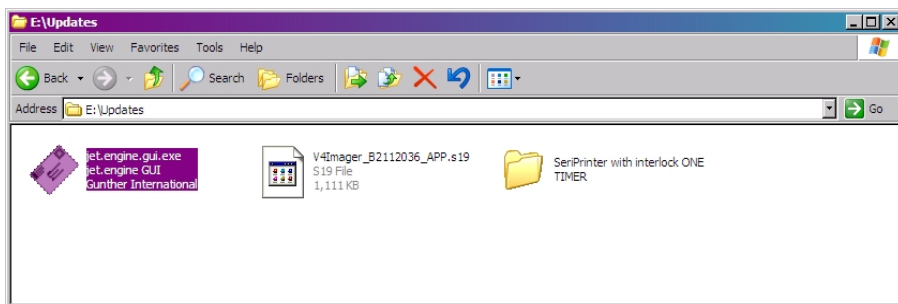
On completion of the installation procedure the following must be performed to ensure the correct performance of the software for the SeriPrinter.

- Updating the [jet.engine.gui] executable file
- Copying and applying the [SeriPrinter with interlock ONE TIMER] configuration file. Follow the procedure below.

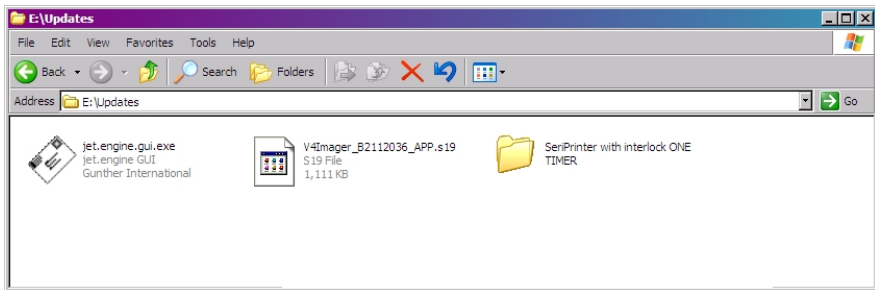
1. Browse to the location of the [jet.engine.gui] folder on the local disk of the computer. Locate the [jet.engine.gui.exe] file. Delete [jet.engine.gui.exe] file.



2. Browse the SP25VDP installation CD ROM.
3. Double click on the [Update] folder and locate the [jet.engine.gui.exe].
4. Copy [jet.engine.gui.exe] file from the CD-ROM to the [jet.engine.gui] folder on the local disk.



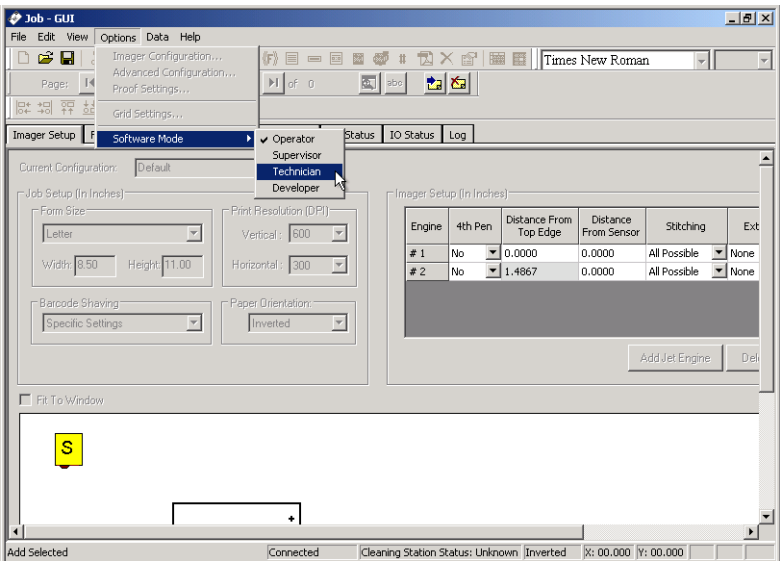
5. Locate the [SystemConfigurations] folder on the local disk. Double click on this folder. Leave this window open.
6. Browse the SP25VDP installation CD ROM.
7. Double click on the [Update] folder and locate the folder [SeriPrinter with interlock ONE TIMER]. Select this folder.
8. Copy and paste [SeriPrinter with interlock ONE TIMER] folder into the [SystemConfigurations] folder on the local disk.



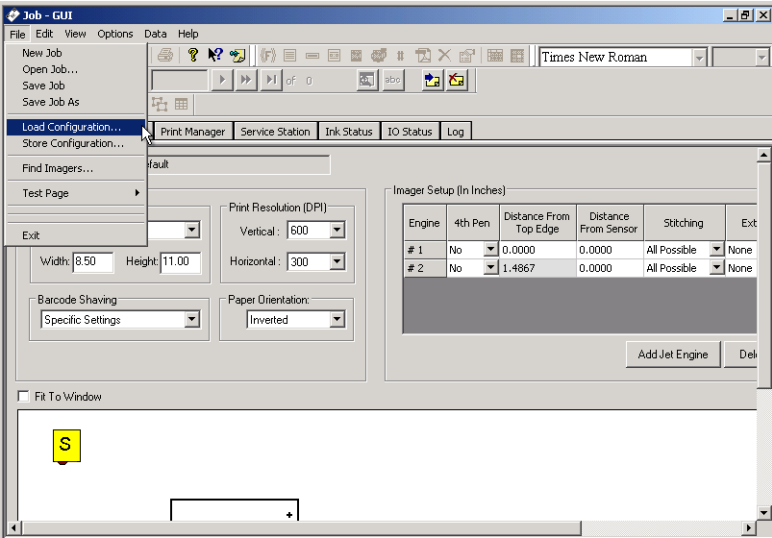
**Note:** The [System Configurations] folder will only appear in the [jet.engine.gui] folder on the local disk after the application has been launched for the first time.

9. Close all windows.

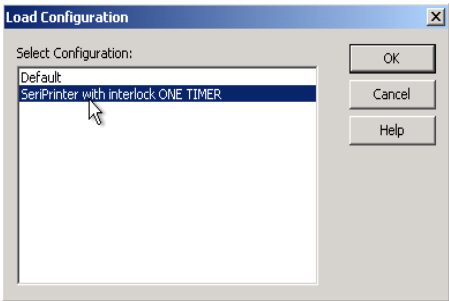
10. Launch [jet.engine.gui]. Select [Software Mode] from the [Options] drop down menu. Set the software mode to [Technician].



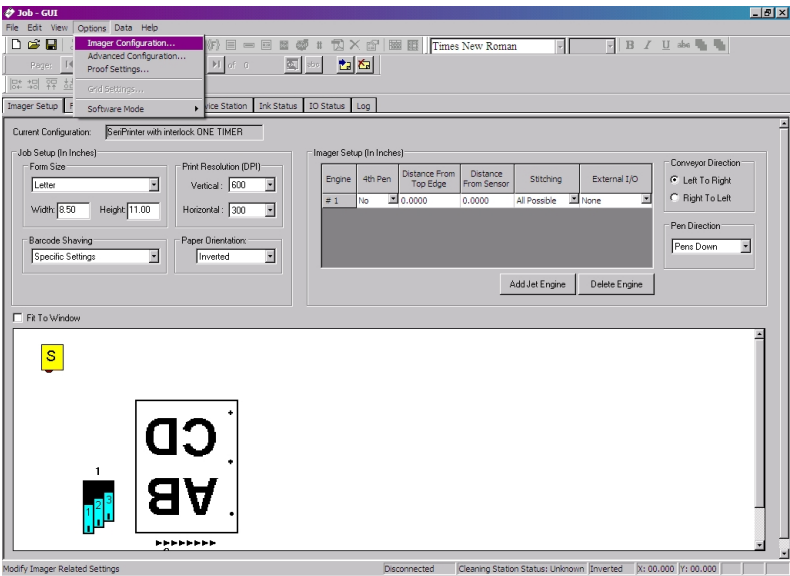
11. Select [Load Configuration] from the [File] drop down menu.



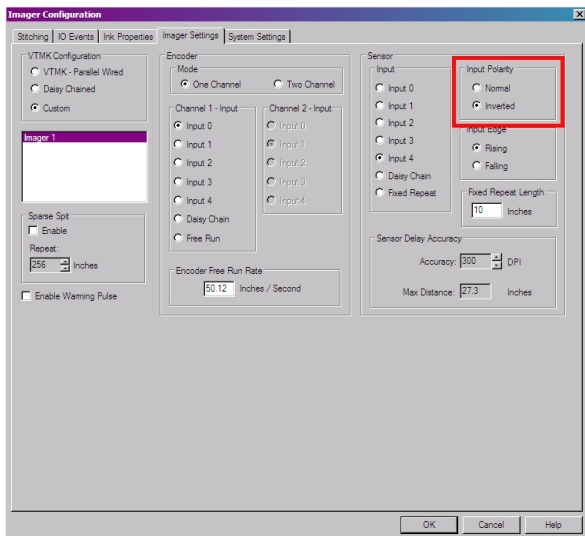
12. Select [SeriPrinter with interlock ONE TIMER] and click OK.



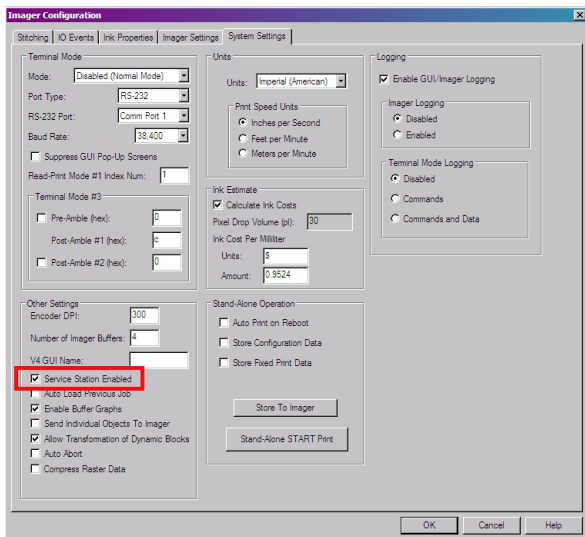
13. Select [Imager Configuration] from the [Options] drop down menu.



14. Select the [Imager Settings] tab. Locate the [Output Polarity] setting and select [Inverted]. Click on [OK].



15. Select [Imager Configuration] from the [Options] drop down menu.
16. Select the [System Settings] tab. Locate the [Other Settings] section and select [Service Station Enabled]. Click on [OK].



17. The [jet.engine.gui] is now ready to use.

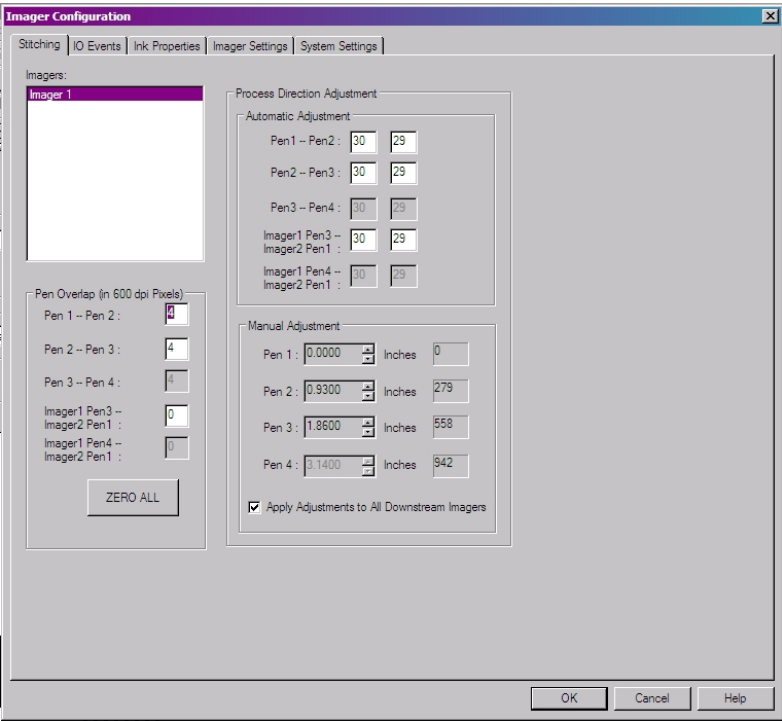


4. **SeriPrinter with interlock ONE TIMER configuration settings.**

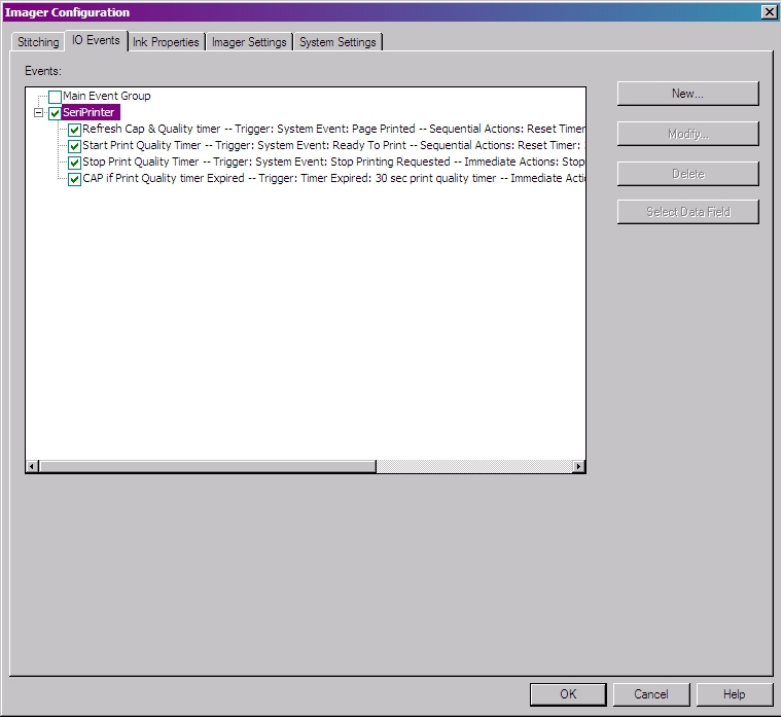
Should the configuration files be changed, the SeriPrinter with interlock ONE TIMER configurations files can be reapplied by repeating steps 10 to 16.

The settings applied by SeriPrinter with interlock ONE TIMER configuration are shown in the images below.

1. **Stitching**



## 2. IOEvents



## 2.1. Event 1 - Refresh Cap & Quality Timer

Event Settings

Description:  

Refresh Cap & Quality timer

Group Name:  

SenPrinter

☒ Enabled

Trigger

☐ Not Defined

☐ Hardware Input:  

Integer 1 Input 0

☐ Leading Edge  
☐ Trailing Edge

☐ Data Source  

☒ Contains  
☐ Changes

☒ System Event:  

Page Printed

☐ Page Printed Count  

Every 1 Pages

☐ Page Processed Count  

Every 1 Pages

☐ Timer Expired

☐ Counters  

Trigger: Counter:

Notes:

OK

Cancel

Help

Define Labels...

Timers and Counters...

Actions

☐ Execute Actions Immediately

☒ Execute Actions in the Specified Order

Reset Timer: 30 sec print quality timer  
Start Timer: 30 sec print quality timer

Add Action...

Edit Action...

Delete Action

Move Up

Move Down

## 2.2. Event 2 - Start Print Quality Timer

Event Settings

Description:  

Start Print Quality Timer

Group Name:  

SenPrinter

☒ Enabled

Trigger

☐ Not Defined

☐ Hardware Input:  

Integer 1 Input 0

☐ Leading Edge  
☐ Trailing Edge

☐ Data Source  

☒ Contains  
☐ Changes

☒ System Event:  

Ready To Print

☐ Page Printed Count  

Every 1 Pages

☐ Page Processed Count  

Every 1 Pages

☐ Timer Expired

☐ Counters  

Trigger: Counter:

Notes:

OK

Cancel

Help

Define Labels...

Timers and Counters...

Actions

☐ Execute Actions Immediately

☒ Execute Actions in the Specified Order

Reset Timer: 30 sec print quality timer  
Start Timer: 30 sec print quality timer

Add Action...

Edit Action...

Delete Action

Move Up

Move Down

### 2.3. Event 3 - Stop Print Quality Timer

Event Settings

Description:  

Stop Print Quality Timer

Group Name:  

SenPrinter

☒ Enabled

Trigger:

☐ Not Defined

☐ Hardware Input:

Integer: 1 Input: 0

☐ Leading Edge

☐ Trailing Edge

☐ Data Source:

☒ Contains:

☐ Changes:

☐ System Event:

Stop Printing Requested

☐ Page Printed Count:

Every: 1 Pages

☐ Page Processed Count:

Every: 1 Pages

☐ Timer Expired:

☐ Counters:

Triggers:  Counters:

Notes:

OK

Cancel

Help

Define Labels...

Timers and Counters...

Actions:

☒ Execute Actions Immediately

☐ Execute Actions in the Specified Order

Stop Timer: 30 sec print quality timer

Add Action...

Edit Action...

Delete Action

Move Up

Move Down

### 2.4. Event 4 - CAP if Print Quality Timer Expired

Event Settings

Description:  

CAP if Print Quality timer Expired

Group Name:  

SenPrinter

☒ Enabled

Trigger:

☐ Not Defined

☐ Hardware Input:

Integer: 1 Input: 0

☐ Leading Edge

☐ Trailing Edge

☐ Data Source:

☒ Contains:

☐ Changes:

☐ System Event:

Ready To Print

☐ Page Printed Count:

Every: 1 Pages

☐ Page Processed Count:

Every: 1 Pages

☒ Timer Expired:

30 sec print quality timer

☐ Counters:

Triggers:  Counters:

Notes:

OK

Cancel

Help

Define Labels...

Timers and Counters...

Actions:

☒ Execute Actions Immediately

☐ Execute Actions in the Specified Order

System Action: Stop Printing

Add Action...

Edit Action...

Delete Action

Move Up

Move Down

20

SP25 VDP Software IM 1.1-3 2006

### 3. Ink Properties

Imager Configuration

Stitching

IO Events

Ink Properties

Imager Settings

System Settings

Pen Ink Levels

Imagers:

Imager 1

Pen Type:

Available Ink (%):

Pen 1: Cartridge System 97 Reset

Pen 2: Cartridge System 98 Reset

Pen 3: Cartridge System 98 Reset

Pen 4: 0 Reset

Low Ink Warning Levels

Bulk System (%): 10

Cartridge System (%): 20

OK

Cancel

Help

# 4. Imager Settings

Imager Configuration

Stitching | IO Events | Ink Properties | Imager Settings | System Settings

VTMK Configuration

☐ VTMK - Parallel Wired

☐ Daisy Chained

☒ Custom

Imager 1

Sparse Spit

☐ Enable

Repeat: 256 Inches

☐ Enable Warning Pulse

Encoder

Mode

☒ One Channel

☐ Two Channel

Channel 1 - Input

☒ Input 0

☐ Input 1

☐ Input 2

☐ Input 3

☐ Input 4

☐ Daisy Chain

☐ Free Run

Channel 2 - Input

☐ Input 0

☐ Input 1

☐ Input 2

☐ Input 3

☐ Input 4

Encoder Free Run Rate

50.12 Inches / Second

Sensor

Input

☐ Input 0

☐ Input 1

☐ Input 2

☐ Input 3

☒ Input 4

☐ Daisy Chain

☐ Fixed Repeat

Input Polarity

☐ Normal

☒ Inverted

Input Edge

☒ Rising

☐ Falling

Fixed Repeat Length

10 Inches

Sensor Delay Accuracy

Accuracy: 300 DPI

Max Distance: 27.3 Inches

OK

Cancel

Help

22

SP25 VDP Software IM 1.1-3 2006

# 5. System Settings

Imager Configuration

Stitching | IO Events | Ink Properties | Imager Settings | System Settings

Terminal Mode

Mode: Disabled (Normal Mode)

Port Type: RS-232

RS-232 Port: Comm Port 1

Baud Rate: 38,400

☐ Suppress GUI Pop-Up Screens

Read-Print Mode #1 Index Num: 1

Terminal Mode #3

☐ Pre-Ambles (hex): 0

Post-Ambles #1 (hex): c

☐ Post-Ambles #2 (hex): 0

Other Settings

Encoder DPI: 300

Number of Imager Buffers: 4

V4 GUI Name:

☒ Service Station Enabled

☐ Auto Load Previous Job

☒ Enable Buffer Graphs

☐ Send Individual Objects To Imager

☒ Allow Transformation of Dynamic Blocks

☐ Auto Abort

☐ Compress Raster Data

Units

Units: Imperial (American)

Print Speed Units

☒ Inches per Second

☐ Feet per Minute

☐ Meters per Minute

Ink Estimate

☒ Calculate Ink Costs

Pixel Drop Volume (pl): 30

Ink Cost Per Milliliter

Units: \$

Amount: 0.9524

Stand-Alone Operation

☐ Auto Print on Reboot

☐ Store Configuration Data

☐ Store Fixed Print Data

Store To Imager

Stand-Alone START Print

Logging

☒ Enable GUI/Imager Logging

Imager Logging

☒ Disabled

☐ Enabled

Terminal Mode Logging

☒ Disabled

☐ Commands

☐ Commands and Data

OK

Cancel

Help

## 5. Supporting Documentation

In addition to this manual, the SP25 Operators manual, the SP25 VDP Accessory Kit Operators Manual and the SP25 VDE Service Manual the following documentation is available.

1. Inc.Jet Technical Manual - manual is installed onto the local disk of the computer the software is installed onto.  
Location: c:\jet.engine.gui\Docs
2. jet.engine.gui help - software help manual.  
Location: Start\Programs\jet.engine.gui\Lanuch jet.engine.gui Help or selecting help from the drop down menu in the application.